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1330.01 General

Irrigation provides additional moisture to plants during their establishment (the first 3-5 years), or in special cases, on a continuing basis. Irrigation is a high maintenance and high cost item; use only when absolutely necessary.

Permanent irrigation is only used in semiurban and urban character classifications in Treatment Levels two and three. Refer to the *Roadside Classification Plan* for more information.

Contact the regional Landscape Architect or the Headquarters (HQ) Roadside & Site Development Unit for assistance with irrigation plans.

1330.02 References

Roadside Classification Plan, M 25-31, WSDOT

Roadside Manual, M 25-30, WSDOT

1330.03 Design Considerations

During the project planning phase:

- (a) Determine whether irrigation is necessary.
 - Analyze soils
 - Determine local climate conditions and microclimates
 - Consult with the HQ Horticulturist, regional Landscape Architect, or HQ Roadside & Site Development Unit for regions without landscape architectural expertise for site, soil, and plant recommendations to reduce or eliminate need for irrigation
 - Describe where irrigation is needed based on a functional design concept, such as “irrigation is needed to provide green lawn at a safety rest area”

- (b) Determine the source of water, and its availability, rate of flow and pressure, and connection fees.

Sources of water for irrigation use include municipal water systems and water pumped from a well, pond, or stream. When selecting a source of water, consider what permits and agreements may be needed as well as the cost and feasibility of bringing water from the source to the site.

- (c) Determine applicable laws and regulations regarding water, and backflow prevention.

During the design and implementation phases:

- (a) Coordinate with the local water purveyor.
- (b) Select durable, readily available, easy to operate, and vandal resistant irrigation components.
- (c) Justify any proprietary device selections.
- (d) Determine power source and connection fees.
- (e) Consider the need for winterization of the irrigation system to avoid freeze damage to system components.

Use this information to document design decisions for the project file.

Show the location and type of water source on the irrigation plan.

For more detailed information on irrigation systems and irrigation documentation, see the *Roadside Manual*.

1330.04 Documentation

A list of documents that are to be preserved [in the Design Documentation Package (DDP) or the Project File (PF)] is on the following website: <http://www.wsdot.wa.gov/eesc/design/projectdev/>